

INDEX

ABSORPTION, glucose, from intestine of diabetic rat, 242.
— intestinal, of glucose, adrenalectomy and, 104.
Acid-base equilibrium of blood in exercise, 742.
Adrenal cortex and hypoglycemic convulsions, 653.
— and neuromuscular transmission, 331.
— capillary permeability and, 69.
— rôle of, in anoxia, 606.
— cortical extract and capillary permeability, 426.
Adrenalectomy, action of pressor substances after, 371.
— and circulatory shock, 362.
— and intestinal absorption of glucose, 104.
Adrenalin and venous hematocrit value, 717.
— effect of, on oxygen consumption of fish, 533.
— hyperglycemia, anterior pituitary and, 124.
—, pressor action of, pulmonary ventilation and, 485.
Adrenalin-sensitivity of intestine, nerve supply and, 87.
ALDOUS, J. See ALLARDYCE, ALDOUS, COOPER, PRATT and SUTHERLAND, 761.
ALLARDYCE, J., J. ALDOUS, W. COOPER, J. PRATT and E. SUTHERLAND. Effects of visible radiations upon albino rats, 761.
ALTSHUL, R. and K. P. TURNER. The innervation of the musculi interossei and the toe spreading reflex, 247.
ALTSHULER, C. H. See SACKS and ALTSHULER, 750.
Amphetamine sulfate and polyeythemia in man, 94.
ANDERSON, R. K. See HUBBARD and ANDERSON, 722.
ANDERSON, R. S. The use of radioactive phosphorus for determining circulatory erythrocyte volumes, 539.
Anemia, antacids and iron retention in, 706.
Anesthesia and body temperature, 259.
Angiotonin, renin and, blood pressure response to, in fetal rat, 473.
Anoxia and flow of lung lymph, 641.
—, CO₂ and carotid sinus reflexes in convulsions, 404.
—, effect of, on brain potentials, 703.
—, rôle of adrenal cortex in, 606.
Antacids and iron retention in anemia, 706.
Antuitrin-S, fetal survival after injection of, 143.
Aqueous humour, penetration of sugars into, 421.
ARNETT, V., M. KESSLER and E. GELLIHORN. The rôle of the adrenal cortex in preventing hypoglycemic convulsions, 653.
Arterial blood pressure fluctuations with respiration, 620.
— oxygen tension, normal human, 238.
— pressure, pulmonary, of turtle, variations of, 628.
ASHER, R. See KATZ, KILLIAN, ASHER and PERLOW, 79.
—. See KATZ, SHLESER, ASHER and PERLOW, 589.
AUMANN, K. W. See YOUMANS, KARSTENS and AUMANN, 87.

BALFOUR, W. M. See POMMERENKE, HAHN, BALE and BALFOUR, 164.
BALE, W. F. See HAHN, BALE and BONNER, 717.
—. See POMMERENKE, HAHN, BALE and BALFOUR, 164.
BARLOW, O. W. and H. KOCHER. Utilization by the rat of vitamin A administered perorally and intramuscularly, 213.
BARROWS, E. F. and H. DODDS. Body temperature of mice during anesthesia, 259.
BATES, R. W. See RIDDELL, LAHR and BATES, 299.
BAUMANN, C. A. See FIELD, OVERMAN and BAUMANN, 509.
BERNSTEIN, A. O. See HIMWICH, BERNSTEIN, FAZEKAS, HERRLICH and RICH, 327.
Bile resorption in obstructive jaundice, 97.
— salt, cardiovascular action of, 599.
BLOCH, H. I. See DE BODO, BLOCH and GROSS, 124.
—. See DE BODO, BLOCH and SLATER, 671.
Blood, acid-base equilibrium of, in exercise, 742.

Blood and saliva, nitrogen clearance from, by, 742.
 —— and saliva, nitrogen clearance from, by oxygen breathing, 715.
 —— capillary permeability and adrenal cortex, 69.
 —— cell volume, true, determination of, 447.
 —— electrolytes, effect of cardiac glycosides on, 6.
 —— N-P-N, effects of pituitary hormones on, 200.
 —— pressure fluctuations, arterial, with respiration, 620.
 —— ——, inability of renin to reduce, 570.
 —— —— responses in fetal rat, 473.
 —— ——. See Hypertension.
 —— pictures of active and hibernating ground squirrels, 431.
 —— serum, isotonic, and saline infusion after trauma, 355.
 —— sugar levels, normal, anterior pituitary and, 671.
 —— vessels, splanchnic, response to pressor substances after adrenalectomy, 371.
 —— volume of normal dogs, 380.
 ——. See Serum.

BLOOMFIELD, R. See EGAÑA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTEMBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

Body temperature, anesthesia and, 259.

BOELTER, M. D. D. See GREENBERG, BOELTER and KNOFF, 459.

BOND, D.D. See ROSENBLUETH, BOND and CANNON, 681.

BONNER, J. F., JR. See HAHN, BALE and BONNER, 717.

BONNYCASTLE, D. D. and R. A. CLEGHORN. A study on the blood volume of a group of untrained normal dogs, 380.

BORASKY, R. and J. T. BRADBURY. Frozen plant juice as the source of a rabbit ovulating factor, 637.

BRADBURY, J. T. See BORASKY and BRADBURY, 637.

Brain and skin extracts, thromboplastic activity of, 178.
 —— metabolism, some factors influencing, 327.
 —— potentials, effect of anoxia on, 703.

BRAUN-MENENDEZ, E. See HUIDOBRO and BRAUN-MENENDEZ, 47.

BRENIZER, A. G., JR. See COPE, BRENIZER and POLDERMAN, 69.

Bromide ion, distribution of, serum bromide concentration and, 109.

BROUHA, L. See EGAÑA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTEMBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.
 ——. See METHENY, BROUHA, JOHNSON and FORBES, 318.
 ——. See WALD, BROUHA and JOHNSON, 551.

BUNNELL, I. L. See KINGDON, BUNNELL and GRIFFITH, 114.

Buoyancy of body and respiratory modifiers, 136.

BURLINGAME, P., J. A. LONG and E. OGDEN. The blood pressure of the fetal rat and its response to renin and angiotonin, 473.

CALABRESI, M. and A. J. GEIGER. Potential changes in injured cardiac muscle, 440.

CANNON, W. B. See ROSENBLUETH, BOND and CANNON, 681.

Capillary permeability, adrenal cortical extract and, 426.
 —— —— and adrenal cortex, 69.

Carbohydrate metabolism, relation of stilbestrol to, 557.

Carbon dioxide, anoxia, and carotid sinus reflexes in convulsions, 404.
 —— ——, response to, under lowered oxygen tension, 256.

Cardiac glycosides, effect of, on blood electrolytes, 6.
 —— muscle, injured, potential changes in, 440.

Cardiovascular action of bile salt, 599.
 —— changes, motor cortex stimulation and, 468.

Carotid sinus reflexes and convulsions, 396.
 —— —— ——, anoxia, CO_2 and, in convulsions, 404.

Cerebral cortex, clonic responses of, 681.
 —— metabolism in fat fed dogs, 436.

Cerebrospinal fluid, distribution of bromide in, 109.

CHAPIN, M. A. and J. F. Ross. The determination of the true cell volume by dye dilution, by protein dilution, and with radioactive iron. The error of the centrifuge hematocrit, 447.

CHILDS, A. and L. EICHELBERGER. The distribution of water and electrolytes between blood, fluids and skeletal muscle in pregnant dogs, 384.

CHU, H-N. See HSU, HWANG and CHU, 468.

Circulation, physiology of heart before, 146.

Circulatory shock, nervous factor in, 362.

CLARK, G. Sexual behavior in rats with lesions in the anterior hypothalamus, 746.

CLARK, W. G. and E. M. MACKAY. Influence of adrenalectomy upon the rate of glucose absorption from the intestine, 104.

CLEGHORN, R. A. See BONNYCASTLE and CLEGHORN, 380.

—. See FOWLER and CLEGHORN, 371.

Clonic responses of cerebral cortex, 681.

COCO, R. M. Fetal survival following the injection of antuitrin-S in pregnant rats and rabbits, 143.

—. See STUCKEY and COCO, 431.

CODE, C. F. and R. L. VARCO. Prolonged action of histamine, 225.

CONSOLAZIO, F. See EGASNA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

Convulsions, anoxia, CO_2 and carotid sinus reflexes in, 404.

—, carotid sinus reflexes and, 396.

—, hypoglycemic, adrenal cortex and, 653.

COOPER, W. See ALLARDYCE, ALDOUS, COOPER, PRATT and SUTHERLAND, 761.

COPE, O., A. G. BRENIZER, JR. and H. POLDERMAN. Capillary permeability and the adrenal cortex studies of cervical lymph in the adrenalectomized dog, 69.

COPLEY, A. L. On the thromboplastic activity of brain and skin extracts, 178.

CO TUI. See SHAFIROFF, DOUBILET, RUGGIERO, PREISS and CO TUI, 97.

CRANDALL, L. A., JR. See MULDER and CRANDALL, 436.

CULLEN, M. L. See SCHACTER, CULLEN and FREEMAN, 710.

CULLEN, S. C. and E. V. COOK. Normal human arterial oxygen tension, 238.

Cutaneous insensible perspiration, 492.

CUTULY, E. A study on spermatogenesis in rats, 521.

DARLING, R. C. and F. J. W. ROUGHTON. The effect of methemoglobin on the equilibrium between oxygen and hemoglobin, 56.

—. See EGASNA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

—. See ROUGHTON, DARLING, FORBES, HORVATH, ROBINSON and TALBOTT, 593.

DAVIS, J. E. The production of experimental polycythemia by the daily administration of epinephrine or posterior pituitary solution, 699.

— and A. M. HARRIS. The production of experimental polycythemia in man by the daily administration of amphetamine sulfate, 94.

DAVSON, H. See WELD, FEINDEL and DAVSON, 421.

DE BODO, R. C., H. I. BLOCH and I. H. GROSS. The rôle of the anterior pituitary in adrenaline hyperglycemia and liver glycogenolysis, 124.

—, — and I. SLATER. The rôle of the anterior pituitary in the maintenance of normal blood sugar levels and in the physiological mobilization of liver glycogen, 671.

DE SÜTÖ-NAGY, G. J. See MYLON, WINTERNITZ, KATZENSTEIN and DE SÜTÖ-NAGY, 280.

DEL POZO, E. C. See ROSENBLUETH and DEL POZO, 263.

Desoxycorticosterone, action of, in shock, 79.

Dextrose, effect of thiamine on energy value of, 573.

Diabetic rat, glucose absorption from intestine of, 242.

Diet, vitamin B deficient, 731.

Dihydrotachysterol and vitamin D in rachitic dog, 171.

Diodrast and inulin in estimation of renal function, 564.

DODDS, H. See BARROWS and DODDS, 259.

DOMMERS, P. See NECHELES, DOMMERS, WEINER, OLSON and RYCHEL, 22.

DOUBILET, H. See SHAFIROFF, DOUBILET, RUGGIERO, PREISS and CO TUI, 97.

DRILL, V. A. See KLEINBERG, REMINGTON, DRILL and SWINGLE, 362.

DRINKER, C. K. See WARREN, PETERSON and DRINKER, 641.

DRURY, D. R. See PAULS and DRURY 242.

DUNCAN, M. T. See WELSH, ROSENTHAL, DUNCAN and TAYLOR, 338.

DWORKIN, S. See SCHACHTER and DWORKIN, 599.

EDWARDS, G. A. See SCHOLANDER and EDWARDS, 715.

EGASA, E., R. E. JOHNSON, R. BLOOMFIELD, L. BROUHA, A. P. MEIKLEJOHN, J. WHITTENBERGER, R. C. DARLING, C. HEATH, A. GRAYBIEL and F. CONSOLAZIO. The effects of diet deficient in the vitamin B complex of sedentary men, 731.

EICHELBERGER, L. See CHILDS and EICHELBERGER, 384.

Electric currents and their electronarcotic action, 39.
— responses of smooth muscle, 263.

Electrolytes, blood, effect of cardiac glycosides on, 6.
—, distribution of water and, in pregnancy, 384.

ELVEHJEM, C. A. See TERESI, ELVEHJEM and HART, 504.

Energy value of dextrose, effect of thiamine on, 573.

ENSOR, C. See SHULER, ENSOR, GUNNING, MOSS and JOHNSON, 620.

Epinephrine. See Adrenalin.

Erythrocyte volume, circulating, radioactive P and, 539.

Erythrocytes, increase of, by amphetamine sulfate, 94.

EVANS, H. M. See FRAENKEL-CONRAT, FRAENKEL-CONRAT and EVANS, 200.
—, See MARX, MAGY, SIMPSON and EVANS, 544.

Excretion, renal, of sulfate, 658.

Exercise, acid-base equilibrium of blood in, 742.
—, comparative responses of women and men to, 318.

Eye, penetration of sugars into aqueous humour, 421.
— pupil diameter, monochromatic light and, 769.

FAT fed dogs, cerebral metabolism in, 436.

FAZEKAS, J. F. See HIMWICH, BERNSTEIN, FAZEKAS, HERRLICH and RICH, 327.

FEDOROV, N. A. and E. I. SHUR. The rôle of the viscera in regulating the tempera-

ture of the body of an animal under physiological and pathological conditions, 30.

Feeding, controlled, basal metabolism after, 114.

FEINDEL, W. H. See WELD, FEINDEL and DAVSON, 421.

Fetal rat, blood pressure responses in, 473.
— survival after injection of antuitrin-S, 143.

Fetus, transmission of radio-active iron to, 164.

FIELD, J. B., R. S. OVERMAN and C. A. BAUMANN. Prothrombin activity during pregnancy and lactation, 509.

Fish, effect of adrenalin on oxygen consumption of, 533.

FORBES, W. H. See METHENY, BROUHA, JOHNSON and FORBES, 318.
—, See ROUGHTON, DARLING, FORBES, HORVATH, ROBINSON and TALBOTT, 593.

FOWLER, J. L. A. and R. A. CLEGHORN. The response of splanchnic blood vessels and of the small intestine to vasoconstrictor influences in adrenal insufficiency in the cat, 371.

FRAENKEL-CONRAT, H. See FRAENKEL-CONRAT, FRAENKEL-CONRAT and EVANS, 200.

FRAENKEL-CONRAT, J., H. FRAENKEL-CONRAT and H. M. EVANS. Effects of purified pituitary preparations on the nonprotein nitrogen constituents of blood, 200.

FREED, S. C. See SHLESER and FREED, 426.

FREEMAN, N. E. See SCHACTER, CULLEN and FREEMAN, 710.

FREEMAN, S. and A. C. IVY. The influence of antacids upon iron retention by the anemic rat, 706.

FRIEDMAN, M., H. E. KRUGER and A. KAPLAN. The inability of purified or crude kidney extract (renin) to reduce the blood pressures of hypertensive dogs, 570.

FRIEDMAN, S. M. and C. A. LIVINGSTONE. The estimation of renal function in the rat by the use of diodrast and inulin, 564.

GASTRIC activity, hydrochloric acid and, 153.
— emptying and acclimatization to low oxygen tensions, 160.

Gastric evacuation and pyloric sphincter motility, 234.
— motility, injection of pyrogens and, 22.
— secretion, urogastrone and, 417.

GEIGER, A. J. See CALABRESI and GEIGER, 440.

GELLHORN, E. and L. YESINICK. The significance of carotid sinus reflexes for the effects of anoxia and carbon dioxide on convulsions, 404.
—, —, M. KESSLER and H. HAILMAN. Carotid sinus reflexes and convulsions, 396.
—. See ARNETT, KESSLER and GELLHORN, 653.
—. See KESSLER and GELLHORN, 703.
—. See KIELY, HAMILTON and GELLHORN, 251.

Glucose absorption from intestine of diabetic rat, 242.
—, intestinal absorption of, adrenalectomy and, 104.

Glycosides, cardiac, effect of, on blood electrolytes, 6.

GOLDMAN, A. See KATZ, JOCHIM and GOLDMAN, 779.

Goss, C. M. The physiology of the embryonic mammalian heart before circulation, 146.

GRAY, J. S. See SCHIFFRIN and GRAY, 417.

GRAYBIEL, A. See EGASA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

GREENBERG, D. M., M. D. D. BOELTER and B. W. KNOPF. Factors concerned in the development of tetany by the rat, 459.

GRIFFITH, F. R., JR. See KINGDON, BUNNELL and GRIFFITH, 114.

GROSS, I. H. See DE BODO, BLOCH and GROSS, 124.

GULLBERG, J. E. See WAGMAN and GULLBERG, 769.

GUNNING, R. E. See SHULER, ENSOR, GUNNING, MOSS and JOHNSON, 620.

GUTMANN, H., W. H. OLSON, S. O. LEVINSON and H. NECHELES. A study of the effects of isotonic serum and saline infusion following trauma in dogs, 355.

HAHN, P. F., W. F. BALE and J. F. BONNER, JR. Mechanism of the effect of epinephrine on the venous hematocrit value of the normal unanesthetized dog, 717.
—. See POMMERENKE, HAHN, BALE and BALFOUR, 164.

HAILMAN, H. See GELLHORN, YESINICK, KESSLER and HAILMAN, 396.

HAMILTON, S. L. See KIELY, HAMILTON and GELLHORN, 251.

HARRIS, A. M. See DAVIS and HARRIS, 94.

HARRISON, H. C. See HARRISON and HARRISON, 171.

HARRISON, H. E. and H. C. HARRISON. A comparison of the physiological effects of dihydrotachysterol and vitamin D in the rachitic and normal dog, 171.

HART, E. B. See TERESI, ELVEHJEM and HART, 504.

Heart, electrical field of, after injury, 779.
— muscle, injured, potential changes in, 440.
—, physiology of, before circulation begins, 146.
— rate, basal, accelerator nerves and, 727.

Heat production, function of thyroid in maintaining, 582.

HEATH, C. See EGASA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

Hematocrit, centrifuge, error of, 447.

Hemoglobin, methemoglobin and equilibrium of O_2 and, 56.

Hemorrhage, influence of, on skeletal muscle tone, 251.

HERRLICH, H. C. See HIMWICH, BERNSTEIN, FAZEKAS, HERRLICH and RICH, 327.

HIMWICH, H. E., A. O. BERNSTEIN, J. F. FAZEKAS, H. C. HERRLICH and E. RICH. The metabolic effects of potassium, temperature, methylene blue and para-phenylenediamine on infant and adult brain, 327.

HINES, H. M., J. D. THOMSON and B. LAZERE. Quantitative studies on muscle and nerve regeneration in the rat, 527.

Histamine, prolonged action of, 225.

HONG, J. See NICHOLSON, TAKAHASHI and HONG, 331.

HOOKER, D. R., W. B. KOUWENHOVEN and J. A. YORK. Volume of air moved by artificial respiration in anesthetized men, 649.

Hormones in initiation of maternal behavior, 299.
 —, pituitary, and urine nitrogen, 544.
 —, —, effects of, on N-P-N of blood, 200.

HORVATH, S. M. See ROUGHTON, DARLING, FORBES, HORVATH, ROBINSON and TALBOTT, 593.

HSU, S-H, K. HWANG and H-N. CHU. A study of the cardiovascular changes induced by stimulation of the motor cortex in dogs, 468.

HUBBARD, R. S. and R. K. ANDERSON. The distribution of sucrose in body fluids following intravenous injections, 722.

HUIDOBRO, F. and E. BRAUN-MENENDEZ. The secretion of renin by the intact kidney, 47.

HWANG, K. See HSU, HWANG and CHU, 468.

Hydrochloric acid and gastric activity, 153.

Hyperglycemia, adrenalin, anterior pituitary and, 124.

Hypertension, experimental, renin in prophylaxis of, 515.

Hypoglycemic convulsions, adrenal cortex and, 653.

Hypothalamic lesions, anterior, and sexual behavior, 746.

INTESTINAL absorption of glucose, adrenalectomy and, 104.

Intestine, adrenalin-sensitivity of, nerve supply and, 87.

Inulin, diodrast and, in estimation of renal function, 564.

Iron retention in anemia, antacids and, 706.
 —, transmission of, to fetus, 164.

IVY, A. C. See FREEMAN and IVY, 706.

JACOBSON, E. and F. L. KRAFT. Contraction potentials (right quadriceps femoris) in man during reading, 1.

JANES, R. G. and W. O. NELSON. The relation of diethyl-stilbestrol to carbohydrate metabolism in adrenalectomized and hypophysectomized rats, 557.

Jaundice, obstructive, bile resorption in, 97.

JOCHIM, K. See KATZ, JOCHIM and GOLDMAN, 779.

JOHNSON, C. A. See WAKERLIN, JOHNSON, SMITH, MOSS and WEIR, 515.

JOHNSON, R. E. See EGASNA, JOHNSON,

BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.
 —. See METHENY, BROUHA, JOHNSON and FORBES, 318.
 —. See WALD, BROUHA and JOHNSON, 551.

JOHNSON, V. See SHULER, ENSOR, GUNNING, MOSS and JOHNSON, 620.

JONES, B. F. See THORN, JONES, LEWIS, MITCHELL and KOEPPF, 606.

KAPLAN, A. See FRIEDMAN, KRUGER and KAPLAN, 570.

KARSTENS, A. I. See YOUMANS, KARSTENS and AUMANN, 87.

KATZ, L. N., K. JOCHIM and A. GOLDMAN. The effect of an injured area on the electrical field of the heart based on experiments with models, 779.
 —, S. T. KILLIAN, R. ASHER and S. PERLOW. The prophylactic action of desoxycorticosterone in shock due to massive venous thrombosis, 79.
 —, I. H. SHLESER, R. ASHER and S. PERLOW. Prevention of experimental shock following venous occlusion in the dog by the application of a rigid cast, 589.

KATZENSTEIN, R. See MYLON, WINTERNITZ, KATZENSTEIN and DE SÜTÖ-NAGY, 280.

KESSLER, M. and E. GELLHORN. The effect of anoxia on brain potentials of hyperthyroid animals, 703.
 —. See ARNETT, KESSLER and GELLHORN, 653.
 —. See GELLHORN, YESINICK, KESSLER and HAILMAN, 396.

Kidney, intact, secretion of renin by, 47.
 —. See Renal.

KIELY, W. F., S. L. HAMILTON and E. GELLHORN. The influence of hemorrhage on skeletal muscle tone, 251.

KILLIAN, S. T. See KATZ, KILLIAN, ASHER and PERLOW, 79.

KINGDON, C. L., I. L. BUNNELL and F. R. GRIFFITH, JR. The fasting respiratory metabolism of the white rat for 36 hours following controlled feeding, 114.

KLEINBERG, W., J. W. REMINGTON, V. A. DRILL and W. W. SWINGLE. The nervous factor in the circulatory failure induced in adrenalectomized dogs by

intestinal stripping and a single stage bilateral adrenalectomy, 362.

KNOFF, B. W. See GREENBERG, BOELTER and KNOFF, 459.

KOCHER, H. See BARLOW and KOCHER, 213.

KOEPP, G. F. See THORN, JONES, LEWIS, MITCHELL and KOEPP, 606.

KOUWENHOVEN, W. B. See HOOKER, KOUWENHOVEN and YORK, 649.

KRAFT, F. L. See JACOBSON and KRAFT, I.

KRUGER, H. E. See FRIEDMAN, KRUGER and KAPLAN, 570.

LABATE, J. S. See SHEEHAN and LABATE, 456.

Lactation, pregnancy and, prothrombin activity in, 509.

LAHR, E. L. See RIDDELL, LAHR and BATES, 209.

LAZERE, B. See HINES, THOMSON and LAZERE, 527.

LEVINSON, S. O. See GUTMANN, OLSON, LEVINSON and NECHELES, 355.

LEWIS, R. A. See THORN, JONES, LEWIS, MITCHELL and KOEPP, 606.

Light, monochromatic, and pupil diameter, 769.

Liver glycogen, mobilization of, anterior pituitary and, 671.

—glycogenolysis, adrenalin hyperglycemia and, 124.

LIVINGSTONE, C. A. See FRIEDMAN and LIVINGSTONE, 564.

LONG, J. A. See BURLINGAME, LONG and OGDEN, 473.

Lung lymph, factors increasing flow of, 641.

LYMAN, C. P. Penetration of radioactive potassium in denervated muscle, 392.

Lymph, lung, factors increasing flow of, 641.

Lymphatic block and bile resorption, 97.

MACKAY, E. M. See CLARK and MACKAY, 104.

MAES, J. P. See PAPPENHEIMER and MAES, 187.

MAGOUN, H. W. and W. A. McKinley. The termination of ascending trigeminal and spinal tracts in the thalamus of the cat, 409.

—. See McKinley and MAGOUN, 217.

MAGY, D. B. See MARX, MAGY, SIMPSON and EVANS, 544.

MARX, W., D. B. MAGY, M. E. SIMPSON and H. M. EVANS. Effect of purified pituitary preparations on urine nitrogen in the rat, 544.

Maternal behavior, hormones in initiation of, 299.

MATTHEWS, S. A. See SMITH and MATTHEWS, 533.

MCKINLEY, W. A. and H. W. MAGOUN. The bulbar projection of the trigeminal nerve, 217.

—. See MAGOUN and McKinley, 409.

MEIKLEJOHN, A. P. See EGASA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

MESCHAN, I. See QUIGLEY, READ, RADZOW, MESCHAN and WERLE, 153.

Metabolism, basal, after controlled feeding, 114.

—, brain, some factors influencing, 327.

—, carbohydrate, relation of stilbestrol to, 557.

—, cerebral, in fat fed dogs, 436.

—, muscle, radioactive phosphorus in, 750.

Methemoglobin and equilibrium of O_2 and hemoglobin, 56.

METHENY, E., L. BROUHA, R. E. JOHNSON and W. H. FORBES. Some physiologic responses of women and men to moderate and strenuous exercise: a comparative study, 318.

MITCHELL, E. R. See THORN, JONES, LEWIS, MITCHELL and KOEPP, 606.

MOE, G. K. See WOOD and MOE, 6.

Molybdenum in nutrition, 504.

Monochromatic light and pupil diameter, 769.

Moss, W. G. See SHULER, ENSOR, GUNNING, MOSS and JOHNSON, 620.

—. See WAKERLIN, JOHNSON, SMITH, MOSS and WEIR, 515.

Motor cortex stimulation and cardiovascular changes, 468.

MULDER, A. G. and L. A. CRANDALL, JR. Cerebral metabolism in fat fed dogs, 436.

MURPHY, Q. The influence of the accelerator nerves on the basal heart rate of the dog, 727.

Muscle and nerve regeneration, 527.

—, cardiac, injured, potential changes in, 440.

— contraction potentials during reading, 1.

Muscle, denervated, penetration of radioactive K in, 392.
 — metabolism, radioactive phosphorus in, 750.
 —, smooth, electric responses of, 263.
 — tone, skeletal, influence of hemorrhage on, 251.

Muscles, measurement of vasomotor tone in, 187.

Muscular exercise, ability to perform, vitamin A deficiency and, 551.

MYLON, E., M. C. WINTERNITZ, R. KATZENSTEIN and G. J. DE SÜTÖ-NAGY. Studies on mechanisms involved in shock, 280.

NARCOTIC, electro, action of electric currents, 39.

NECHELES, H., P. DOMMERS, M. WEINER, W. H. OLSON and W. RYCHEL. Depression of gastric motility without elevation of body temperature following the injections of pyrogens, 22.
 —. See GUTMANN, OLSON, LEVINSON and NECHELES, 355.

NELSON, W. O. See JANES and NELSON, 557.

Nerve regeneration, muscle and, 527.
 — stimulation of uterus, nicotine and, 456.
 — supply and adrenalin-sensitivity of intestine, 87.
 — tracts ending in thalamus, 409.
 —, trigeminal, bulbar projection of, 217.

Nerves, accelerator, and basal heart rate, 727.

Nervous factor in circulatory shock, 362.
 — pathway of toe spreading reflex, 247.

Neuromuscular transmission, adrenal cortex and, 331.

NICHOLSON, H. C., W. Y. TAKAHASHI and J. HONG. The influence of adrenal cortical insufficiency upon the response of muscle to motor nerve stimulation, with particular reference to the fifth stage of neuromuscular transmission, 331.
 — and R. H. TRIMBY. Continuously recorded alterations in the buoyancy of anesthetized dogs produced by various respiratory modifiers, 136.

Nicotine and nerve stimulation of uterus, 456.

Nitrogen clearance from blood and saliva by oxygen breathing, 715.
 —, urine, pituitary hormones and, 544.

Nutritional significance of molybdenum, 504.

OGDEN, E. See BURLINGAME, LONG and OGDEN, 473.

OLSON, W. H. See GUTMANN, OLSON, LEVINSON and NECHELES, 355.
 —. See NECHELES, DOMMERS, WEINER, OLSON and RYCHEL, 22.

OVERMAN, R. S. See FIELD, OVERMAN and BAUMANN, 509.

Ovulation factor, frozen plant juice as source of, 637.

Oxygen and hemoglobin, methemoglobin and equilibrium of, 56.
 — breathing, nitrogen clearance from blood and saliva by, 715.
 — consumption of fish, effect of adrenalin on, 533.
 — tension, lowered, response to carbon dioxide under, 256.
 — — —, normal human arterial, 238.

Oxygen tensions, low, acclimatization to, gastric emptying and, 160.

PPAPPENHEIMER, J. R. and J. P. MAES. A quantitative measure of the vaso-motor tone in the hindlimb muscles of the dog, 187.

PAULS, F. and D. R. DRURY. The rate of glucose absorption from the intestine of diabetic rats, 242.

Peptone, effect of, on capillary permeability, 426.

PERLOW, S. See KATZ, KILLIAN, ASHER and PERLOW, 79.
 —. See KATZ, SHLESER, ASHER and PERLOW, 589.

Perspiration, cutaneous insensible, 492.

PETERSON, D. K. See WARREN, PETERSON and DRINKER, 641.

Phosphorus, radioactive, and circulating red cell volume, 539.
 — — —, in muscle metabolism, 750.

PINSON, E. A. Evaporation from human skin with sweat glands inactivated, 492.

Pituitary, anterior, and adrenalin hyperglycemia, 124.
 — — —, and normal blood sugar levels, 671.
 — — —, hormones and urine nitrogen, 544.

PLESSET, M. S. See VAN HARREVELD, PLESSET and WIERSMA, 39.

POLDERMAN, H. See COPE, BRENIZER and POLDERMAN, 69.

Polycythemia, experimental, production of, 699.
 — in man, amphetamine sulfate and, 94.

POMMERENKE, W. T., P. F. HAHN, W. F. BALE and W. M. BALFOUR. Transmission of radio-active iron to the human fetus, 164.

Potassium, radioactive, penetration of, in denervated muscle, 392.

PRATT, J. See ALLARDYCE, ALDOUS, COOPER, PRATT and SUTHERLAND, 761.

Pregnancy and lactation, prothrombin activity in, 509.

—, distribution of water and electrolytes in, 384.

PREISS, A. P. See SHAFIROFF, DOUBILET, RUGGIERO, PREISS and CO TUL, 97.

Pressor substances, action of, after adrenalectomy, 371.

Prothrombin activity in pregnancy and lactation, 509.

Pulmonary arterial pressure of turtle, variations of, 628.

— ventilation and pressor action of adrenaline, 485.

Pyloric sphincter motility, gastric evacuation and, 234.

Pyrogens, injection of, and gastric motility, 22.

QUIGLEY, J. P. and M. R. READ. The spontaneous motility of the pyloric sphincter and its relation to gastric evacuation: the "pyloric diagraph", 234.

—, —, K. H. RADZOW, I. MESCHAN and J. M. WERLE. The effect of hydrochloric acid on the pyloric sphincter, the adjacent portions of the digestive tract and on the process of gastric evacuation, 153.

RACHITIC dog, dihydrotachysterol and vitamin D in, 171.

Radiations, visible, effects of, on albino rats, 761.

Radioactive iron, transmission of, to fetus, 164.

— phosphorus and circulating red cell volume, 539.

— in muscle metabolism, 750.

— potassium, penetration of, in denervated muscle, 392.

RADZOW, K. H. See QUIGLEY, READ, RADZOW, MESCHAN and WERLE, 153.

READ, M. R. See Quigley and READ, 234.

—. See QUIGLEY, READ, RADZOW, MESCHAN and WERLE, 153.

Reflex, toe spreading, nervous pathway of, 247.

Reflexes, carotid sinus, and convulsions, 396.

—, —, anoxia, CO_2 and, in convulsions, 404.

REMINGTON, J. W. See KLEINBERG, REMINGTON, DRILL and SWINGLE, 362.

Renal excretion of sulfate, 658.

— function, diodrast and inulin in estimation of, 564.

—, testosterone propionate and, 338.

—. See Kidney.

Renin and angiotonin, blood pressure response to, in fetal rat, 473.

— in prophylaxis of experimental hypertension, 515.

—, inability of, to reduce blood pressure, 570.

— secretion by intact kidney, 47.

Respiration, arterial blood pressure fluctuations with, 620.

—, artificial, applied to anesthetized man, 649.

—, response to CO_2 under lowered oxygen tension, 256.

Respiratory modifiers, buoyancy of body and, 136.

RICE, K. K. See RICHTER and RICE, 573.

RICH, E. See HIMWICH, BERNSTEIN, FAZEKAS, HERRLICH and RICH, 327.

RICHTER, C. P. and K. K. RICE. The effect of thiamine hydrochloride on the energy value of dextrose studied in rats by the single food choice method, 573.

RIDDLE, O., E. L. LAHR and R. W. BATES. The rôle of hormones in the initiation of maternal behavior in rats, 299.

RING, G. C. The importance of the thyroid in maintaining an adequate production of heat during exposure to cold, 582.

ROBERTSON, G. G. See WOODBURY and ROBERTSON, 628.

ROBINSON, S. See ROUGHTON, DARLING, FORBES, HORVATH, ROBINSON and TALBOT, 593.

—. See TURRELL and ROBINSON, 742.

ROSENBLUETH, A., D. D. BOND and W. B. CANNON. The control of clonic responses of the cerebral cortex, 681.

— and E. C. DEL POZO. The electric responses of the tail pilomotors and nictitating membrane of the cat, 263.

ROSENTHAL, A. See WELSH, ROSENTHAL DUNCAN and TAYLOR, 338.

ROSS, J. F. See CHAPIN and ROSS, 447.

ROTH, G. M. and C. SHEARD. The effect of peripheral vasodilatation on vasoconstriction: determinations made on the basis of blood pressure of normal subjects, 695.

ROUGHTON, F. J. W., R. C. DARLING, W. H. FORBES, S. M. HORVATH, S. ROBINSON and J. H. TALBOTT. Some effects of sulfathiazole and sulfadiazine on man at rest and during exercise, 593.

—. See DARLING and ROUGHTON, 56.

RUGGIERO, W. F. See SHAFIROFF, DOUBILET, RUGGIERO, PREISS and CO TUI, 97.

RYCHEL, W. See NECHELES, DOMMER, WEINER, OLSON and RYCHEL, 22.

SACKS, J. and C. H. ALTSCHULER. Radioactive phosphorus studies on striated and cardiac muscle metabolism, 750.

Saline infusion, isotonic serum and, after trauma, 355.

Saliva, nitrogen clearance from blood and, by oxygen breathing, 715.

SCHACHTER, M. and S. DWORKIN. On the cardiovascular action of bile salt with regard to inhibition of cholinesterase, 599.

SCHECTER, A. E., M. L. CULLEN and N. E. FREEMAN. The production of shock by trauma after spinal cord transection, 710.

SCHIFFRIN, M. J. and J. S. GRAY. The effect of urogastrone on gastric secretion in enterectomized dogs, 417.

SCHOLANDER, P. F. and G. A. EDWARDS. Nitrogen clearance from the blood and saliva by oxygen breathing, 715.

SCHWARTZ, B. M., P. K. SMITH and A. W. WINKLER. Renal excretion of sulfate, 658.

Secretion, gastric, urogastrone and, 417.

— of renin by intact kidney, 47.

SEEVERS, W. H. and H. P. SMITH. Factors which influence the activity of purified thrombin, 348.

Serum bromide concentration and distribution of ion, 109.

—. See Blood.

Sexual behavior, anterior hypothalamic lesions and, 746.

SHAFIROFF, B. G. P., H. DOUBILET, W. F. RUGGIERO, A. P. PREISS and CO TUI.

The effect of lymphatic block on bile resorption in obstructive jaundice, 97.

SHEARD, C. See ROTH and SHEARD, 695.

SHEEHAN, D. and J. S. LABATE. The effect of nicotine on uterine responses to hypogastric nerve stimulation, 456.

SHLESER, I. H. and S. C. FREED. The effect of peptone on capillary permeability and its neutralization by adrenal cortical extract, 426.

—. See KATZ, SHLESER, ASHER and PERLOW, 589.

SHOCK, N. W. and M. H. SOLEY. Effect of lowered oxygen tension of inspired air on the respiratory response of normal subjects to carbon dioxide, 256.

Shock, action of desoxycorticosterone in, 79.

—, circulatory, nervous factor in, 362.

—, experimental, following venous occlusion, 589.

—, mechanisms involved in, 280.

—, traumatic, after spinal cord transection, 710.

SHULER, R. H., C. ENSOR, R. E. GUNNING, W. G. MOSS and V. JOHNSON. The differential effects of respiration on the left and right ventricles, 620.

SHUR, E. I. See FEDEROV and SHUR, 30.

SIMPSON, M. E. See MARX, MAGY, SIMPSON and EVANS, 544.

Skin, evaporation from, with sweat glands inactivated, 492.

— extracts, brain and, thromboplastic activity of, 178.

SLATER, I. See DE BODO, BLOCH and SLATER, 671.

SMITH, D. C. and S. A. MATTHEWS. The effect of adrenalin on the oxygen consumption of the fish, *Girella nigricans*, 533.

SMITH, E. L. See WAKERLIN, JOHNSON, SMITH, MOSS and WEIR, 515.

SMITH, H. P. See SEEVERS and SMITH, 348.

SMITH, P. K. See SCHWARTZ, SMITH and WINKLER, 658.

SOLEY, M. H. See SHOCK and SOLEY, 256.

Spermatogenesis in rats, 521.

Spinal cord transection, traumatic shock after, 710.

— tracts, trigeminal and, ending in thalamus, 409.

STAVRAKY, G. W. The effect of pulmonary ventilation on the pressor action of adrenalin, 485.

STICKNEY, J. C. and E. J. VAN LIERE. Acclimatization to low oxygen tensions in relation to gastric emptying, 160.

Stilbestrol, relation of, to carbohydrate metabolism, 557.

STUCKEY, J. and R. M. COCO. A comparison of the blood pictures of active and hibernating ground squirrels, 431.

Sucrose in body fluids after intravenous injection, 722.

Sugars, penetration of, into aqueous humour, 421.

Sulfadiazine, effects of sulfathiazole and, 593.

Sulfate, renal excretion of, 658.

Sulfathiazole and sulfadiazine, effects of, 593.

SUTHERLAND, E. See ALLARDYCE, ALDOUS, COOPER, PRATT and SUTHERLAND, 761.

Sweat glands inactivated, evaporation from human skin with, 492.

SWINGLE, W. W. See KLEINBERG, REMINGTON, DRILL and SWINGLE, 362.

TAKAHASHI, W. Y. See NICHOLSON, TAKAHASHI and HONG, 331.

TALBOTT, J. H. See ROUGHTON, DARLING, FORBES, HORVATH, ROBINSON and TALBOTT, 593.

TAYLOR, H. C., JR. See WELSH, ROSENTHAL, DUNCAN and TAYLOR, 338.

Temperature, body, rôle of viscera in regulation of, 30.

TERESI, J. D., C. A. ELVEHJEM and E. B. HART. Molybdenum in the nutrition of the rat, 504.

Testosterone propionate and renal function, 338.

Tetany in rat, 459.

Thalamus, trigeminal and spinal tracts ending in, 409.

Thiamine, effect of, on energy value of dextrose, 573.

THOMSON, J. D. See HINES, THOMSON and LAZERE, 527.

THORN, G. W., B. F. JONES, R. A. LEWIS, E. R. MITCHELL and G. F. KOEFF. The rôle of the adrenal cortex in anoxia: The effect of repeated daily exposures to reduced oxygen pressure, 606.

Thrombin, purified, activity of, 348.

Thromboplastic activity of brain and skin extracts, 178.

Thyroid, function of, in maintaining heat production, 582.

Toe spreading reflex, nervous pathway of, 247.

Trauma, isotonic serum and saline infusion after, 355.

Traumatic shock after spinal cord transection, 710.

Trigeminal and spinal tracts ending in thalamus, 409.

TRIMBY, R. H. See NICHOLSON and TRIMBY, 136.

TURNER, K. P. See ALTSCHUL and TURNER, 247.

TURRELL, E. S. and S. ROBINSON. The acid-base equilibrium of the blood in exercise, 742.

Turtle, variations of pulmonary arterial pressure of, 628.

URINE N, pituitary hormones and, 544. Urogastrone and gastric secretion, 417.

Uterus, nerve stimulation of, nicotine and, 456.

VAN HARREVELD, A., M. S. PLESSET and C. A. G. WIERSMA. The relation between the physical properties of electric currents and their electronarcotic action, 39.

VAN LIERE, E. J. See STICKNEY and VAN LIERE, 160.

VARCO, R. L. See CODE and VARCO, 225.

Vasoconstriction, effect of vasodilatation on, 695.

Vasodilatation, effect of, on vasoconstriction, 695.

Vasomotor tone in muscles, measurement of, 187.

Venous hematocrit value, adrenalin and, 717.

— occlusion, experimental shock following 589.

Viscera, rôle of, in regulation of body temperature, 30.

Vitamin A, peroral and intramuscular, effect of, 213.

— — —, physical fitness and, 551.

— — — B complex deficiency in sedentary men, 731.

— — — D, dihydrotachysterol and, in rachitic dog, 171.

WAGMAN, I. H. and J. E. GULLBERG. The relationship between monochromatic light and pupil diameter. The low intensity visibility curve as measured by pupillary measurements, 769.

WAKERLIN, G. E., C. A. JOHNSON, E. L. SMITH, W. G. MOSS and J. R. WEIR. Prophylactic treatment of experimental renal hypertension with renin, 515.

WALD, G., L. BROUHA and R. E. JOHNSON. Experimental human vitamin A deficiency and the ability to perform muscular exercise, 551.

WARREN, M. F., D. K. PETERSON and C. K. DRINKER: The effects of heightened negative pressure in the chest, together with further experiments upon anoxia in increasing the flow of lung lymph, 641.

Water and electrolytes, distribution of, in pregnancy, 384.

WEINER, M. See NECHELES, DOMMERS, WEINER, OLSON and RYCHEL, 22.

WEIR, E. G. The influence of the serum bromide concentration upon the distribution of bromide ion between serum and spinal fluid, 109.

WEIR, J. R. See WAKERLIN, JOHNSON, SMITH, MOSS and WEIR, 515.

WELD, C. B., W. H. FEINDEL and H. DAVSON. The penetration of sugars into the aqueous humour, 421.

WELSH, C. A., A. ROSENTHAL, M. T. DUNCAN and H. C. TAYLOR, JR. The effects of testosterone propionate on renal function in the dog, as measured by the creatinine and diodrast clearance and diodrast Tm, 338.

WERLE, J.M. See QUIGLEY, READ, RADZOW, MESCHAN and WERLE, 153.

WHITTENBERGER, J. See EGASA, JOHNSON, BLOOMFIELD, BROUHA, MEIKLEJOHN, WHITTENBERGER, DARLING, HEATH, GRAYBIEL and CONSOLAZIO, 731.

WIERSMA, C. A. G. See VAN HARREVELD, PLESSET and WIERSMA, 39.

WINKLER, A. W. See SCHWARTZ, SMITH and WINKLER, 658.

WINTERNITZ, M.C. See MYLON, WINTERNITZ, KATZENSTEIN and DE SUTÖ-NAGY, 280.

WOOD, E. H. and G. K. MOE. Blood electrolyte changes in the heart-lung preparation with special reference to the effects of cardiac glycosides, 6.

WOODBURY, R. A. and G. G. ROBERTSON. The one ventricle pump and the pulmonary arterial pressure of the turtle: The influence of artificial acceleration of the heart, changes in temperature, hemorrhage and epinephrine, 628.

YESINICK, L. See GELLHORN and YESINICK 404.

—. See GELLHORN, YESINICK, KESSLER and HAILMAN, 396.

YORK, J. A. See HOOKER, KOUWENHOVEN and YORK, 649.

YOUmans, W. B., A. I. KARSTENS and K. W. AUMANN. Effect of vagotomy and of sympathectomy on the sensitivity of intestinal smooth muscle to adrenalin, 87.

